Coastal Impact Assistance Program (CIAP) Project Nomination Executive Summary (May 22, 2006)

Project Title:

Restoration of Louisiana Coastal Marsh Using Earthen Terraces

Entity/Individual nominating the project:

Ducks Unlimited, Inc.

Contact Information (Name, Address, Telephone, Email):

Ken Babcock

Chad J Courville

Director Southern Region

Regional Biologist

Ducks Unlimited, Inc

Ducks Unlimited, Inc

193 Business Park Dr. ; Suite E

646 Cajundome Blvd.; Suite 180

Ridgeland, MS 39157-6026

Lafayette, La 70506

601.956.1936

337.291.3068

kbabcock@ducks.org

ccourville@ducks.org

Total CIAP Funds Requested:

\$7,935,291

Parish CIAP Funds Proposed:

\$0.00 dollars

State CIAP Funds Requested:

\$7,935,291

Infrastructure Funds Proposed:

\$0.00 dollars

Description and Location of Project:

All project sites are located in Cameron Parish. The first proposed project area (Black Lake) is adjacent to State Only Project C/S-02. The second proposed project area (Jim Bel) is located within State Only Project C/S-02. The third proposed project area (Miami/USFWS) is located adjacent to the CWPPRA project titled Cameron Creole Watershed Hydrologic Restoration (FC/S-17) and State Only Project C/S-04a

Project Type (from list of authorized CIAP fund uses):

The Restoration of Louisiana Coastal Marsh Using Earthen Terraces consists of conservation, restoration, and protection of Southwestern Louisiana coastal wetlands.

Project Justification:

The purpose of the terraces is to reduce wind fetch and wave energy. Reducing the effects of wind and waves typically increases water clarity dramatically. After the water clears, sunlight can reach the marsh pond bottom and submerged aquatic vegetation can quickly return to the terraced areas. Additional research is needed to firmly establish the relationship between terraces and submersed aquatics. However, many visual observations suggest submersed aquatic vegetation responds when terraces have been installed to create proper conditions for growth. The terraces also dramatically reduce wave action, allowing emergent vegetation to spread in the large open water areas. Large ponds with submersed aquatics represent the first stage of plant succession toward a marsh interspersed with many small shallow ponds.

Project cost share (Types and amounts of non-CIAP funds proposed, if any):

Ducks Unlimited is positioned to compete for additional sources of restoration dollars including North American Wetlands Conservation Act grants that require sources of non-federal match. Hence, funding from the Coastal Impact Assistance Program will be leveraged with other Ducks Unlimited and conservation partner funds to secure future North American Wetlands Conservation Act grants to enable the restoration of additional coastal marsh in Louisiana.

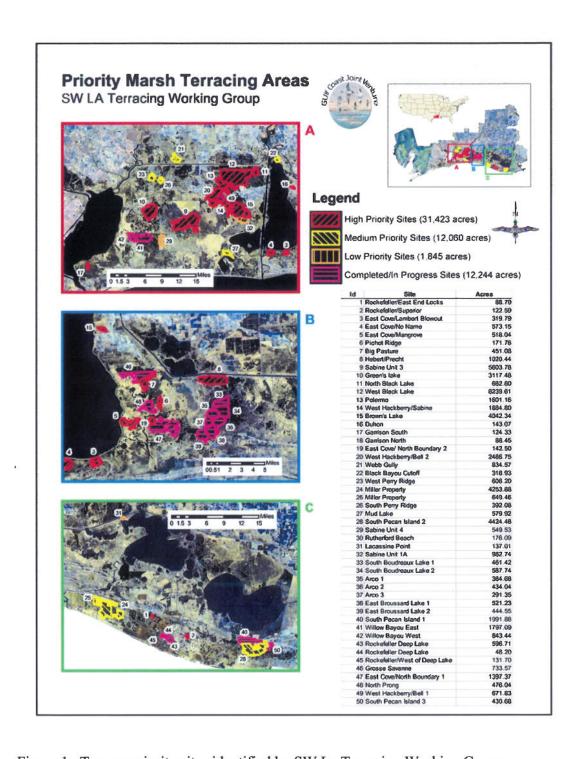


Figure 1. Terrace priority sites identified by SW La Terracing Working Group

Proposal

Area A:

Jim Bel 07

Location:

Cameron Parish

Description: The project area is located just north of Sabine National Wildlife Refuge west of Hwy 27 near the town of Hackberry, Louisiana. The area is classified as intermediate marsh comprising 1,055 acres of open water

generally void of submersed aquatic vegetation.

Landowner: Jim Bel DU Contact: Jim Bel

Linear Feet: 74,500 linear feet

Acres:

1,055 acres

Comments:

This project will compliment the efforts of LDNR project CS-02 as well as the water control structures installed near the Refuge headquarters, West Cove, and Hog Island Gully. In addition, the Jim Bel terraces will be located north west of a beneficial use of dredge material project constructed on Sabine National Wildlife Refuge (figure 2).

Proposal

Area B:

Black Lake 07 Cameron Parish

Location:

Description: The project area is located just north of LDNR project C/S-02 due west of

Black Lake near Hackberry, Louisiana. The area is classified as

intermediate marsh comprising 4,600 acres of open water with minimal

scattered islands generally void of submersed aquatic vegetation.

Landowner: Kurt Marcantel **DU Contact:** Kurt Marcantel Linear Feet: 286,000 linear feet

Acres:

4,600 acres

Comments:

This project will compliment the efforts of the landowner's property management in restoring this site to emergent and submerged aquatic vegetation. In addition, this terracing effort will compliment the other terracing efforts and beneficial use of dredge material sites that are due

south of this project area (figure 3).

Proposal

Area C:

Miami Corporation/USFWS 07

Location:

Cameron Parish

Description: The project area is located just east of Calcasieu Lake along the border of

Miami Corporation and the Cameron Prairie National Wildlife Refuge (NWR) northern border within the Cameron-Creole Watershed. The area

is classified as brackish marsh comprising 508 acres of open water

generally void of submersed aquatic vegetation.

Landowner: Miami Corporation **DU Contact:** Roger Vincent Linear Feet: 29,500 linear feet

Acres:

508 acres

Comments: This project will compliment the efforts recently completed by the partners associated with the North American Wetlands Conservation Act grant titled Louisiana Coastal Wetlands I, II, and III (figure 4).

The project acres included in this proposal are "open water" areas only. It is understood that these terraces will positively impact the surrounding marshes adjacent to the project areas. Land loss rates indicated in the Coast 2050 plan for the Calcasieu/Sabine Basin (Jim Bel, Black Lake, Miami Corporation/USFWS) is 2.5 square miles per year. A great deal of the interior marsh loss is caused by wind generated wave energy in these large open water areas. Terraces will reduce wind generated wave energy by the actual terraces themselves and by the presence of submersed aquatic vegetation in the open water.



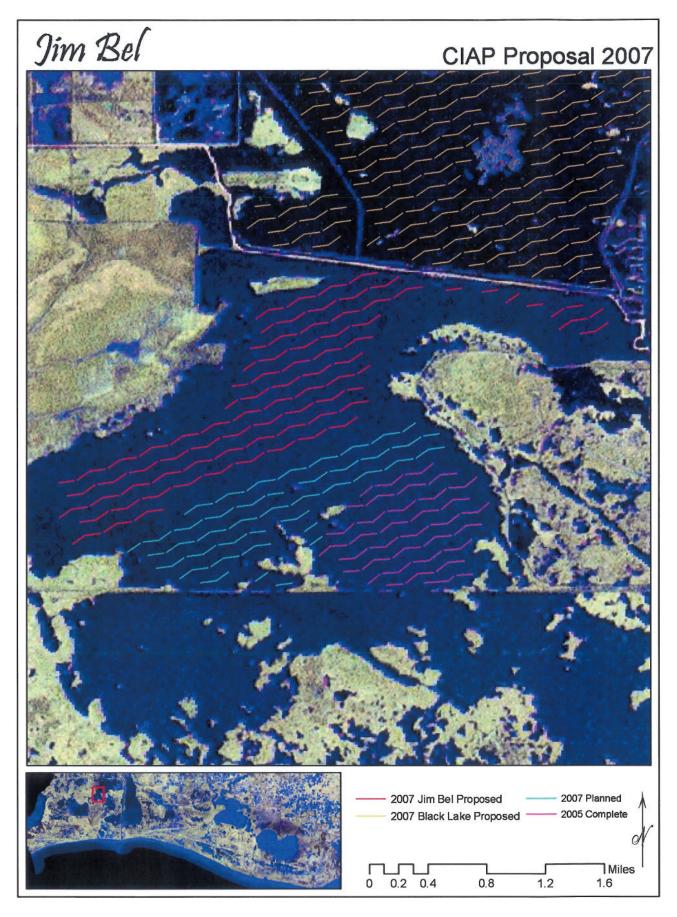


Figure 2. Jim Bel proposed project area.

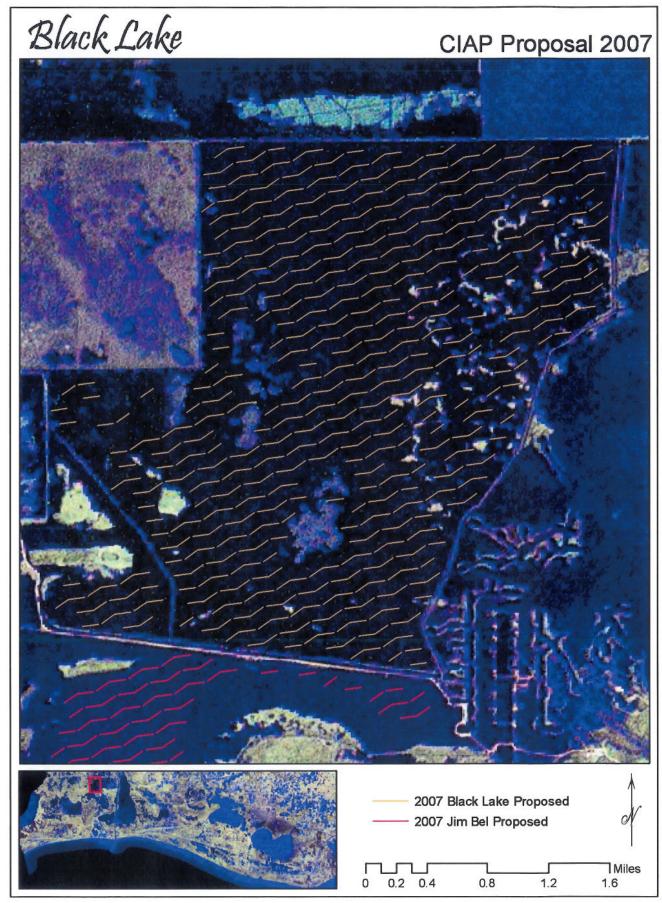


Figure 3. Black Lake proposed project area.

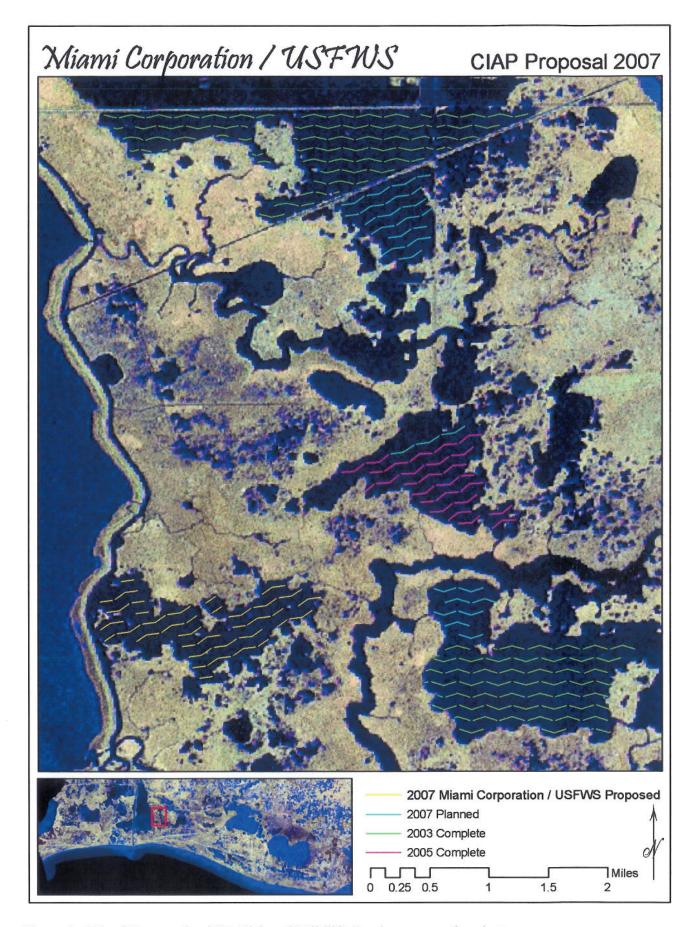


Figure 4. Miami Corporation/U.S. Fish and Wildlife Service proposed project area.